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The Future of the Teaching Profession

In keeping with the analytical study carried on by the National President, William S. Gray, entitled, "Recruiting Capable Young Men for the Teaching Profession," which was begun in the November, 1921, issue of THE PHI DELTA KAPPAN and is concluded in this issue, the following excerpts taken from a clipping from the New York Globe, submitted by National Historian, J. D. Houser, are most timely:

"Much encouraged by the satisfactory result obtained last term in the campaign to induce young men to enter the teaching profession, Superintendent William L. Ettinger (New York City) has directed that the plan of having district superintendents visit the high schools that have boys' classes and speak to the students about the advantage of teaching be followed again this term.

"Dr. Gustave Straubenmuller, associate superintendent in charge of training schools (New York City), said there were now a sufficient number of men in the training schools to establish athletic teams, which would help the school spirit greatly. Also with more young men students it would be possible to provide better facilities and to offer more differentiation. He said that those charged with the administration of the training schools

were now studying the problem of making the course three years instead of two years, and that it might eventually lead to a four year course. If this were done the four year course would be a college course and those graduating from it would be entitled to college diplomas, which enable them to teach in high school, which was not the case at present.

"In the meantime efforts will be made to attract young men to the training schools in increasing numbers. District Superintendent John S. Roberts (New York City), in charge of the training schools, has arranged with the district superintendents who spoke to the boys last year to talk again to them about the advantages of teaching. While no dates have been fixed yet, the districts superintendents have been asked to make arrangements with the principals of the high schools on which they may speak to the young men."

Here Phi Delta Kappa has a duty. It remains for us, the leaders, the members of Phi Delta Kappa, to see that hopes and ideals of these incoming young men are kept high and pointed in the direction of our profession.

FREDERICK SCHULTZ,

(Zeta 312)

Research Activities of Phi Delta Kappa Members

Several weeks ago the National President, William S. Gray, wrote to each chapter asking for a report as to the research problems upon which the members are working. As far as reports have been received at the time of going to press, they are here given. Attention is specially invited to what our alumni chapters are doing. They are proving that a real Phi Delta Kappa man does not need at all to be a back number upon leaving his Alma Mater. In some cases, owing to the length of the contributions, it has been necessary to edit them down. In every case, however, the aim has been to preserve the substance of the chapter's report.

A. J. M.

ALPHA (Indiana)

Reports of investigations of members or conducted under the direction of members of the chapter:

Albert Mock is preparing his Master's thesis on "A Study of High School Publications." This will include a study of the literature on the subject, a state-wide survey of such publications in Indiana, and a collection of papers for Indiana University. It will present suggestions for conducting such publications.

Professor H. C. Childs is directing an investigation on "Content of Special Methods Courses in High School Subjects," as such courses are offered in Indiana Colleges and Normal Schools. This investigation is being conducted under the auspices of the Indiana State Association of College Teachers of Psychology and Education.

Oscar Findley is working on his Doctor's dissertation, "The Development of the High School in Indiana." The study

will cover the legal status of the high school as well as the school curriculum in their historical developments.

J. R. Shannon is writing a thesis based upon a questionnaire sent to 488 township high school principals. The township high school principal of Indiana occupies a singular position in the field of school administration. His duties are not the same as those of a city principal or city superintendent, but in many ways resemble a combination of the two. In the past his work has not been well defined. Practically nothing has been said about this office in our educational literature. It is with the purpose of making a close study of this branch of our school administrative system that this study is being undertaken.

O. R. Chambers is conducting an inquiry into the relationship existing between general intelligence as measured by the Pressey "Cross Out Scale" and the ability to observe and report as well as the ability to improve when given training in observation. The study necessitates the development and standardization of tests for observation and report. The period covered is high school and college.

O. E. Polk has completed a study on "Reporting School Achievement in Terms of Mental Ability as Determined by the Use of a Group Intelligence Test." Intelligence scores, quality of work expected, and quality of work accomplished were shown graphically on a 5x8 card. Subjects reported as follows: 70% helped; 3% hindered; 27% neither helped nor hindered. Correlation .440 \pm .033.

ROLLA V. COOK, President.

BETA (Columbia)

Two meetings of Beta Chapter have been held since the last PHI DELTA KAPPAN was issued. About ten additional men have been initiated, bringing this year's list of initiates up to nearly twenty-five. The new plan of having the candidate file an outline or brief of some debatable issue in Education a few days in advance of the initiation helps to make that part of the monthly meeting a real examination of the candidates.

Professor E. P. Cubberley of Delta (Stanford) Chapter was a visitor at Teachers College during the month of February.

Several important pieces of educational research are under way this year in the new Institute of Educational Research of Teachers College. The division of Field Studies, under the direction of Professor George D. Strayer, is making an intensive

study of educational finance in New York State as the first part of the program of research of the Educational Finance inquiry for the entire country. Several Phi Delta Kappans in the Department of Educational Administration are co-operating in this study, each one on some single phase of the problem for his Doctor's dissertation. The Division of Educational Psychology, under the direction of Professor Edward L. Thorndike, is making investigations concerning the teaching of algebra in the high school and also making studies on trade tests. The division of School Experimentation, under the direction of Professor Otis W. Caldwell of the Lincoln School of Teachers College, is at work on several important researches in the field of the curriculum, e. g. mathematics, science, reading, social studies, educational measurements and music.

EARL U. RUGG, Cor. Secy.

GAMMA (Missouri)

The members of the Gamma Chapter have done a great amount of research work during the past year. Six of the members are working on problems leading toward Master's theses. Others are working on problems that are of special interest to them in their present school work, some of them leading to a Doctor's dissertation. Other members have contributed the results of their research work done during the year. The research problems leading to Master's theses are as follows: J. H. Adyelotte, "Material for Social Studies;" P. G. Buckles, "An Index Number for City School Systems of Missouri;" Fred Bruner, "An Index Number for Missouri County School Systems;" B. I. Lawrence, "What is Learning Capacity?;" E. E. Rich, "An Analysis of the Job of High School Principal;" W. R. Boucher, "An Analysis of City School Surveys."

Research problems that are of interest to other members, some of them leading to a Doctor's dissertation are: Ralph K. Watkins, "A Comparison of the Results of Teaching General Science Through the Project Method and the Text Book Method;" J. H. Mueller, "Educational and Social Values, Their Relation and Criteria;" W. J. Saupe, "Activities of the Bureaus of Research as found in Current Educational Magazines;" R. I. Johnson, "Objectives in Letter Writing;" J. J. Oppenheimer, "Research Problems in Social Studies."

The research problems of other members of the Chapter are: Dr. W. H. Pyle, "What is Learning Capacity?;" Dr. A. G. Capps, "Organization of State Depart-

ments of Education;" E. L. Schott, "What Is Learning Capacity?" S. T. Bratton has just published a note book to be used in the study of geography in the schools of Missouri.

W. R. BOUCHER, Historian.

DELTA (Stanford)

Delta Chapter is able to report the following studies which are under way or recently completed: John C. Almack, "The Adaptation of the School Building to a Program of Education Efficiency." This is a study of the factors involved in optimum class room efficiency. Vernon M. Cady, "Experimental Study of Moral Development." This study was made possible by a grant of \$10,000 from the United State Inter-departmental Social Hygiene Board. Marvin L. Darsie, "An Investigation of the Intelligence of Japanese Children in California." The funds for this study are being supplied by the Japanese Association of Northern California to the amount of several thousand dollars. James C. DeVoss, "Unevenness in the Abilities of Especially Gifted Children." George I. Linn, 1. "The Functions of a School Principal" (Master's thesis); 2. "What Becomes of our High School Graduates?" W. E. Maddock, "Teacher Rating" (Master's thesis). Leo F. Pierce, 1. "The Preparation of Carbonic Nitride (C_2N_2) and an Investigation of Its Properties;" 2. "A Study of the Ability of the State of New Mexico to Support Education at Present and in the Future with Special Reference to the Taxation of Its Resources." Herbert F. Popenoe, "A Test of General Science" (with G. M. Ruch). Arthur S. Raubenheimer, "Some Aspects of Potential Delinquency." G. M. Ruch, 1. "The Influence of the Factor of Intelligence on the Form of the Learning Curve;" 2. "A Test of High School Biology" (with Leo H. Cossman, Chi Chapter); 3. "A Test of General Science" (with Herbert F. Popenoe). I. F. Stewart, "Methods in Educational and Vocational Guidance." (Master's thesis).

G. M. RUCH, President.

EPSILON (Iowa)

The following are the research activities of members of Epsilon Chapter: Wayne E. Beck, "A Study of the Variation of Ability of Children of Different General Intelligence Scores to Respond to Certain Practice Exercises in Reading and Arithmetic;" Omen Bishop, "Relation of Learning to Intelligence Tests;" Earnest C. Clarke, "The Efficiency of the Graduates of the High School Courses in Normal

Training in Iowa;" E. D. Cline, "Silent Reading Comprehension as a Factor in the Solution of Arithmetical Reasoning Problems;" M. C. Del Manzo, "Bonded Indebtedness of Iowa School Districts;" G. H. Hilliard, "Probable Types of Difficulties Underlying Low Scores in Comprehension in Silent Reading;" F. C. Holy, "Consolidated Schools, Their Origin, Development and Status in Iowa;" H. W. James, "The Efficiency of Visual Instruction;" E. E. Kohl, "The Status of School Building Illumination;" W. Lloyd Peterson, "Certification of Teachers;" R. R. Powers, "Tests for a Phase of Arithmetical Reasoning Ability;" H. H. Remmers, "Evidential Material for Courses in Elementary Educational Psychology;" Don C. Rogers, "Variation in Unit Costs of Improvement in Silent Reading Comprehension;" Lloyd H. Spencer, "The Holding Power of Iowa High Schools;" Wendell White, "The Influence of Reading Ability on Scores in the Otis General Intelligence Test;" C. H. Workman, "A Study to Determine the Optimum Number of Pupils Per Teacher in High Schools of Iowa."

W. LLOYD PETERSON,
Corresponding Secretary.

ZETA (Chicago)

Zeta Chapter is experiencing a very successful year. There are seventy-nine of the Chapter members either in the University or in the field near the University enabling them to attend the meetings of the Chapter and to share in its activities. All the members of the Chapter have some definite problem of research. In some instances, however, the investigations have not proceeded far enough to announce definite results. The larger part of the studies are investigations leading to theses for the higher degrees. The following members have reported studies: Boyd McKeown, "The Legal Status of School Teachers in Texas;" E. M. Hinton, "Analysis of the Comprehension of Intermediate School Boys as Revealed in Their Reading;" J. M. McCallister, "Comparative Study of High School Salaries in Missouri and Adjoining States;" L. M. Anderson, "Centralization of School Administration in Kansas;" M. E. Greer, "Rights and Duties of School Principals;" Irving Ball, "A Study of Approved High Schools in Texas" (this study investigates the growth and the standards of high schools in Texas and compares the results with the standards set forth by The Association of Colleges and Secondary Schools of the Southern States); H. W. Nutt, "Modern Problems and Practices in Su-

pervision" (this study is a doctor's dissertation and attempts to set forth the science and principles of supervisory organization); E. J. Brown, "Correlation and Practice Effect of Certain Psycho-Physical and Mental Tests," an investigation of the mental growth of children; W. W. Martin, "Analysis of Extra Academic Courses Offered in the Missouri State Normal Schools in 1920-1921;" W. S. Dearmont, "Tendencies Toward Centralization of Power in State Boards of Education and Their Executive Officers with Certain Tendencies in the Choice of These Officers;" V. L. Tanner, "Comparative Opportunities of Bright and Dull Pupils During the Class Period" (this is a doctor's dissertation); John S. Rowe, "A Study of the Revenues and the Expenditures in Certain Illinois Towns Under Two Types of Organization;" C. C. Vanest, "Tests in the Emphasis and Method of Teaching Modern European History;" E. R. Wood, "Causes of Retardation and Elimination in the Intermediate Grades in Schools;" Ernest F. Hanes, "Teaching Technique in English Literature and Drama with Definition of Teaching Units" (one study of which has appeared in the "School Review" for December, 1921, the other will appear in the June, 1922, issue of the same journal); Karl Hesley, "Diagnostic Work with Slow Pupils" (this study will be reported at the High School Conference at the University of Chicago in May next); Emmett R. Guthrie, "Centralization of Educational Administration in Ohio" (this study shows an increasing state centralization); V. L. Boyer, "A Study of High School Courses in Correlated Mathematics" (this study shows that pupils trained in the University High School (Chicago) and in the Cicero (Illinois) High School, in correlated mathematics made high records in college and university mathematical work); L. G. Hutchison, "History of Certification of Teachers in Michigan" (a second study by Brother Hutchison will soon appear on "Self-Improvement of Teachers Through Self-Rating").

The Chapter has initiated twenty-nine men since the beginning of October, 1921. Dean and Mrs. Gray delightfully entertained the Chapter at their home on the evening of January 26th. The Chapter, through its President, H. W. Nutt, and National President, William S. Gray, participated in the ceremonies at the initiation of President Walter Dill Scott of Northwestern University, on the evening of March 20th. The year thus far has been a successful one and the future looks fair.

W. H. ANDREWS, Secretary.

ETA (Minnesota)

The following is a list of the Doctor's and Master's theses which active members of Eta Chapter now have in progress: J. A. Cederstrom, "Compulsory Education in Selected States of the Middle West;" J. C. Davies, "A Study of the Causes of Failure in Seventh and Eighth Grades;" August Dvorak, "Recognition of Individual Differences in the Junior High Schools;" W. H. Gaumnitz, "The Specific Training of the Junior High Teacher and Its Relation to the Peculiar Functions of the Junior High School;" T. Hetlund, "A Comparison of Local Taxation for School Purposes in the United States" (states to be selected); P. W. Hutson, "The Training of Public High School Teachers in Minnesota with Relation to the Studies They Are Teaching;" G. C. Matthews, "Effect of Thyroid Secretion on Learning;" R. J. Mayo, "The Relation of School Problem and Social Problem;" S. R. Powers, "A Study of the Achievement of High School Students in Chemistry;" A. J. Regier, "Financial Reports Which the Superintendent Should Make to the School Board and to the Public;" C. E. Reichard, "The Working Day of the Minneapolis High School Teachers;" Erich Selke, "A Study of the Training, Experience, Salaries, Expenditures, and Living Conditions of the Teachers of Minnesota;" Homer J. Smith, "Industrial and Vocational Teacher Training in the United States;" L. E. Stockwell, "Content of Industrial Courses for Boys in the Junior High Schools of the United States;" Glenn F. Varner, "Character Ratings and Objective Measurement;" A. E. Whiteside, "The Training of Agricultural Teachers;" F. L. Whitney, "The Intelligence, Preparation and Teaching Skill of State Normal School Graduates in the United States;" Ross N. Young, "A Study of the Reliability of Teachers' Judgments;" L. D. Zeleny, "The Relationship Between Boy Scout Membership and Conduct, Effort and Scholarship at School;" W. A. Ziegler, "Ability Groups in the Seventh and Eighth Grades at Thief River Falls, Minnesota."

H. J. SMITH, President.

THETA (Cornell)

The following members of Theta Chapter are working for their advanced degrees. The subject of the problem follows the name in each case. Those working on their Master's theses are: C. M. Loesell, "Some Common Elemental Requirements for Prospective Teachers of Agriculture in Typical Regions for the State of Michigan;" John B. Boyd, "Use

of Available Data in Planning Courses of Study in Vocational Agriculture;" Graham Eugene Wilson, "Determination of Content for a Curriculum in Vocational Agriculture for the Secondary Schools of North Dakota;" Paul R. Young, "Measurement of Attainment in Junior Home Project Work;" H. M. Lufkin, "The Minimal Properties of the Isogonal Centers of Triangles."

Those working on their Doctor's dissertations are: Thomas L. Bayne, Jr., "Educational Measurements;" Arthur W. Gilbert (problem in education, not yet determined); John P. Nafe (problem not yet determined, Psychology); A. C. Reid (problem not yet determined, Psychology); Jesse Otto Osborn, "Involutions Associated with Webs of Sextic Surfaces;" Harry G. Parkinson, "Study of the Work of the County Vocational Supervisor in Pennsylvania;" W. L. Mayer (problem not yet determined, Agricultural Education); W. W. Reitz, "Principles for Determination of Courses of Study in Farm Management for Vocational Schools."

W. W. REITZ.

IOTA (Harvard)

The following list shows some of the problems on which the active resident members of Iota Chapter are now at work. The list is not complete, for the time at our disposal for collecting the information has been somewhat short. Thus, for example, the Seminar in Secondary Education conducted by Professor Inglis would show a large number of projects in various stages of completion, in which many members of the Chapter are participating. In the Psycho-Educational Clinic, conducted by the Graduate School of Education, there are also important undertakings in measurement and the determination of individual development in which members are taking part. The School is also prosecuting certain surveys in which Chapter members are engaged. The list given is only an indication of the variety of work in which chapter members are interested. Frederick J. Allen, the preparation of material for a book to be called "Studies of Occupations in the Manufacturing and Mechanical Industries;" Leonard Carmichael, "The Educational Significance of the Development of Human Reflex Activity;" Edward R. Collier, "The Education of Workers for Wider Participation in the Control of Industrial Relations;" Robert L. Cummings, "The Project Method and Mental Measurements in Practice;" Ira A. Flinner, "The Determination of the Index of Success of Three Hundred Boys

Ranging in Ages from Ten to Twenty-one by Means of Binet-Simon Tests, Otis Group Tests, Teachers' Estimates of Native Ability, and Accomplishment Grades;" Dean Henry W. Holmes, 1. "How to Run a Graduate School of Education," 2. "The Fundamental Social Objectives of Education;" Thomas L. Hopkins, "The Intelligence of Continuation-School Children to Determine if Intelligence Is a Factor in Causing Them to Leave School to Go to Work;" Charles F. Lancaster, "The Subjective and the Objective of Moral and Religious Education;" Edward A. Lincoln, "The Average Mental Age of Adults" (this has been taken as 16 years ever since the formation of the Binet Tests. The Army testing and the recent use of group intelligence tests indicate that 16 is too high); Harry H. Lowry, 1. "Vocational Guidance in the Junior High School," 2. "The Curriculum for Commercial Education in the Junior and Senior High School;" William H. Murphy, 1. "Legal Aspects of Secondary Education," 2. "Educational Legislation in Connecticut from 1636 to 1922;" Richard R. Price (Eta), "The Financial Support of State Universities in a Selected Group of States as Conditioned by the Economic Resources of Those States;" Frank A. Scott, "A Study of the Schools of Belmont for the Purpose of Discovering How Well They Are Suited to Local Conditions" (Scott is writing a textbook on botany in which he hopes to incorporate information useful to one who has a suburban home and wishes to raise flowers, vegetables, fruit, etc.); Thomas W. Watkins (Planning a Course of Study and Schedule for a Special Class of Students of Exceptional Ability to be Organized Next September); George A. Works (Theta), "A Local Unit for Rural-School Administration;" Henry L. Gerry, "Development of a Standard Test to Measure Achievement in General Chemistry as Taught in the Secondary School;" Harry H. Dampman, "Correlation of I. Q.'s and Grades Received in Beginning Algebra by Freshmen High School Students;" Esek R. Mosher, "A Critique of the Administration of Organization of State Teachers' Colleges;" Charles S. Thomas, "Method of Teaching English in America Contrasted with Method of Teaching English in England;" Professor Walter F. Dearborn, 1. "Standardization of Criteria of Mental and Physical Development," 2. "Clinical Study of Non-Readers," 3. "The Results of Group Intelligence Tests Applied to Various Problems, (a) Average Adult Mental Age, (b) The Diagnosis of Feeble-minded and Exceptionally

Gifted Children;" Hiram T. Hunter, "The High School in the Reports of School Boards."

E. R. MOSHER, Vice-President.

KAPPA (Kansas)

The following theses studies are all under way by members of Kappa Chapter: A. M. Riley, "Relation of I. Q. and School Achievement to Percentage of Indian Blood;" A. W. Glad, "Relation of Attendance Factors to Class-room Achievement in One-Teacher Schools;" W. C. Fowler, "A Study of Reading Results of First Year High School Pupils;" S. H. Kintigh, "A Study of the Factors Justifying a Reorganization of a Specific School Unit;" E. E. Bayles, "An Analysis of Organization Factors and Costs of Rural Schools in Kansas;" F. C. Wright, "An Experimental Study of the Advantages of Instruction by Several Teachers Versus One Teacher;" H. H. Brown, "Analysis of Intelligence and School Progress of Students."

GEORE G. STRUBLE, Secretary.

LAMBDA (California)

Lambda chapter has not attempted, thus far this year, to follow the plan heretofore pursued, namely, that of carrying on individual studies revolving about a central theme in education. Instead we have felt the need of a more satisfactory device for selecting candidates for membership in the Fraternity, and have, therefore, devoted our weekly meetings to the evolution of a scale for rating candidates. We are basing our scale on the Rugg Rating Scale for teachers, grouping the qualities we desire to rate under three heads, Social and Personal, Scholastic, and Professional.

The social phase of the Fraternity life has not been neglected, the monthly meetings of the Education Club serving as an opportunity for relaxation as well as for becoming acquainted with prospective candidates. Our initiation was held on April 15, and was a joint initiation with the Stanford chapter.

Among the activities and problems in which Lambda men are at present engaged are the following:

Surveys of Contra Costa County, Ceres, San Rafael, Redding and Sebastopol by seminars under F. W. Hart; "Levels of Intelligence for Electrical Occupations," Doctor's dissertation, by G. V. Bennett; "Minimum Essentials of a Physical Education Program for City High Schools," Master's thesis, by F. F. Smith; "Reorganization of the Administration of

an Elementary School to Meet the Needs of the Community," Doctor's dissertation, by G. C. Kyte; "Correlation of Standard Educational Tests with Intelligence," by A. J. Hamilton; "A Survey of San Quentin Inmates; Education and Intelligence in Relation to Crime," Doctor's dissertation, by R. E. Warren; "Course of Study in Spelling," by A. E. Harwell; "Another Use of Van Wagenen's Table I: to Compute Spelling Ages from the Buckingham Extension of the Ayres Spelling Scale," Master's thesis, by W. E. Morgan; "The Use of the High School Plant; a Study of the High Schools of the East Bay Region," Master's thesis, by H. H. Cornick; "Finances in Relation to the California Education Program," Doctor's dissertation, by L. H. Petersen; "Development of a Secondary Curriculum on the Basis of a Community Survey," Doctor's dissertation, by H. L. Eby; "Intelligence Surveys of Rural Communities" (Modoc County Survey completed); "College Entrance Tests of Intelligence for the University of California;" "Studies in the Nature of Intelligence—Genetic, Historic, Statistical, and Experimental," by J. V. Breitweiser; "A Program for Civic Education," by A. F. Lange; "Facilities and Materials for the Education of the Blind in the United States," by R. S. French; "Standardized Tests in Commercial Arithmetic;" "Mental Sex Differences in Geometrical Abilities," by F. C. Touton.

HORACE H. BLAIR,
Corresponding Secretary.

NU (Washington)

The following investigations are being undertaken by the members of Nu Chapter: Dudley W. Willard is making a survey for his Master's thesis of the mental abilities of the entire high school group and the eighth grade at Kent, Washington. In relation to many factors, especially the teacher difference in grading as shown by correlation. Howard R. Goold is carrying on experimental work on the correlation of general intelligence and reading ability. He is also working on the problem of self-rating and judgments of others on traits of character. A. M. Willis is writing his Master's thesis on "Testing for Mental Ability by the Use of Achievement Tests." The tendency of educational psychologists to devise intelligence tests composed of various tests of schoolroom ability has led Brother Willis to feel that it may be possible to prepare a general test of mental ability which will eliminate the purely psychological tests and substitute therefor tests of school train-

ing. He is employing the better known of the standardized educational tests in his school system looking toward a composite measure. Frederick Craske is making a study of the "History and Present Status of Educational Measurements in the State of Washington." He is tracing the growth of measurements in this state, not only with reference to the work in the field but with reference to the courses given in the higher institutions of learning. Educational Measurements, as considered here, include intelligence tests, and Brother Craske will present both divisions as his Master's thesis. C. L. Hughes is working on an analysis and comparative evolution of the small community school superintendent, based on judgments of educational experts and systematic records of daily work of a selected group of superintendents. Arthur Ness is working on the problem of an evaluation of aims and results in teaching elementary school grammar, based upon a study of the objectives which now determine courses in grammar and also upon a check on the attainment of objectives by quantitative tests and the general testimony of teachers.

DENNIS C. TROTH, President.

OMICRON (Nebraska)

Members of Omicron Chapter have cooperated with the Department of Measurements and Research of the Teachers College of the University of Nebraska in giving and applying the results of the educational and mental tests in teaching and school administration. Early in the first semester the group mental tests were given to determine as far as possible the capacity of the pupils for doing school work. The National tests were given to grades 4, 5, 6, 7 and 8 and the Terman tests were used in the high school. At the opening of the second semester another form of each test was given.

These tests have been applied to a large number of schools in the state, notably the Teachers College High School and the public schools of Beatrice, Fremont, Holdrege, North Platte, Tecumseh, Eagle and Valparaiso. The educational tests were also given and the results of the two sets of standardized tests and the academic grades given by the teachers during the first semester are now being correlated. Thurston's Mental Tests have been given to the freshmen of the Teachers College.

The outcome of the procedure has led the teachers concerned to place confidence in the prognostic value of the tests

and, secondly, supervisors and teachers have been led to give an unprecedented study to the individual pupil with an effort to adapt teaching material and teaching method to the ability of the pupil.

CHARLES FORDYCE,
Faculty Sponsor.

PI (Illinois)

A good deal of the research work of Pi Chapter very naturally centers about the educational problems of Illinois. Two members, for instance, are making certain comparisons between community and township high schools and the high schools under the general law of the state. Another is studying the problem of universal high school training in Illinois as an objective. Still another is making a historical study of the Illinois High School Conference. One of the men in agricultural education is making what should be a very enlightening investigation of over a thousand farm homes in the state, securing his data from the university undergraduates in courses in vocational agriculture.

Another subject of investigation is the training and supply of secondary teachers. L. W. Williams, who is in charge of the university high school, is making a survey of the methods of training of secondary teachers throughout the country, this to be concluded by a study of the work going on in the training school here. Another member is studying the teacher supply in the state and the relation to it of salary schedules.

Among other investigations, one of the most important is a study of Intelligence Tests as a basis of school organization and instruction, based upon more than a year's work with about eight thousand grade school children of Chicago. Two studies are in the field of English, one of them on the project method. Others are on the teaching of geography, on trade tests, on the continuation school, on the teaching of horticulture, on parent-teacher associations, on the status of the social sciences, etc.

I. F. PEARSON, Secretary.

SIGMA (Ohio)

Research among the members of Sigma Chapter is represented by a diversity of interests. Dr. B. R. Buckingham and P. R. Stevenson are constructing a series of geography tests and, as a special feature of this project, are studying the vocabularies of geography textbooks. Dr. Buckingham is continuing his analysis of verbal problems in arithmetic and, with the assistance of graduate students, is

investigating the effect of supervised study in the high school and the relative effects of intensive and extensive teaching of English composition in the elementary school. Dr. E. J. Ashbaugh has charge of a study of child accounting with the purpose of determining the "holding power" of junior high schools. He is also studying the spontaneous English of junior high school pupils through their letter-writing outside of school. An investigation of the size of class which will yield the best educational results is nearing completion under the direction of P. R. Stevenson. Dr. S. L. Pressey has three different types of projects under way: the construction of three scales in general intelligence for use in all grades of the public schools; an investigation of the emotions, interests and character traits with scales for their measurement; and an investigation of the formal phases of English composition with scales which will be diagnostic of those elements. A study of the influence of Latin on English spelling is being carried on by W. W. Coxé. It will involve the construction of a spelling scale for high school pupils and the conducting of several controlled class groups. D. H. Stevenson is studying the relation of general intelligence ratings to school success in the county normal schools of Ohio. H. Gordon Hullfish is making a study of the movement in education toward the sociological determination of educational objectives with a discussion of apparent weaknesses of this system. R. S. Broede is investigating the working of the Landsittle and Brand Acts for school support in Ohio and their relation to the whole tax situation. Five members are interested in the uses which are to be made of test results. C. E. Erffmeyer is working on the best use to be made of intelligence tests in university administration. E. R. Gabler has just completed a study of best ways of grouping children in a small school in accordance with test results. L. N. Drake, F. C. Slager and Zura Walter are carrying on test programs in public schools in Columbus with the purpose of determining the best uses to which these tests can be put and carrying out programs of reclassification.

W. W. COXÉ,
Corresponding Secretary.

TAU (Pennsylvania)

In a large number of studies that have been made within the past year or that are now in progress at the University of Pennsylvania, members of Tau Chapter have contributed very largely. It is im-

possible to report all of them or any of them in detail. We list herewith the more important ones. Edwin W. Adams, "An Analysis of Educational Objectives of the Course of Study in Geography in Philadelphia Elementary Schools Into the Various Elements of Conduct Control;" William E. Burkhard, "An Analysis of Educational Objectives of the Course of Study in Physiology in Philadelphia Elementary Schools Into the Various Elements of Conduct Control;" Raymond L. Chambers, "An Investigation of the Extent to Which Visual Material Can Be Effectively Used in Making the Essentials of Democracy Controlling in Individual and Social Conduct;" C. A. Fisher, "An Investigation of the Extent to Which Visual Material Can Be Effectively Used in Making Christian Virtues Controlling;" Ober Morning, "An Analysis of Educational Objectives in Christian Virtues Into the Various Elements of Conduct Control;" W. H. Magill, "An Analysis of Educational Objectives in Economics, Selected for Vocational Students, Into the Various Elements of Conduct Control;" J. Kenneth Satchell, "The Application of Factors Which Make for Efficiency in Method in the Teaching of Democracy;" Sturgis B. Davis has recently completed the formulation of Standardized Exercises in United States History of the Colonial Period, with a view to the use of these exercises as testing material in the teaching of American History; LeRoy A. King has had his Doctor's dissertation, "The Status of Rural Teachers in Pennsylvania," accepted by the United States Bureau of Education for publication as Bulletin 34, 1921; Millard L. Lowery is conducting a study of the certification of high school teachers in the United States; John B. Ritter is investigating the distribution of state school money; Carmon Ross is preparing his Doctor's dissertation on teachers' institutes; E. D. Grizzell is in the final stages of the preparation of his Doctor's dissertation on "The Origin and Development of the High School in New England before 1865;" Arthur A. Hamblin and Raymond I. Haskell are conducting a controlled experiment in several Philadelphia high schools under the joint auspices of the American Classical League and the University of Pennsylvania. The subject of the study is "An Investigation Into the Value of Latin in the Teaching of English Derivatives;" Chester Robbins is investigating the methods and improvements in teachers' markings for his Master's thesis; Herman Wessel is submitting the "Relationship Between Occupational Choice and the Ratings to

Results of Standardized Tests" as his Master's thesis; Paul Mertz, "Job Analysis as a Basis for the Reconstruction of Courses for the Training of Teachers;" William McEwan, "Formulation of a Prognostic Test to Determine Ability in Electrical Engineering;" Edward H. Worthington, "Formulation of a Prognostic Test in Geometry;" Richard J. Schmoyer, "Comparative Study of Opportunities for Physical Education in America, England and Germany;" Isaac Doughton, "Preparing for the World's Work," a textbook in pre-vocational civics; Douglas Waples, "An Approach to the Synthetic Study of Interest in Education," a Doctor's dissertation; Philip A. Boyer, "The Adjustment of a School to Individual and Community Needs," a Doctor's dissertation.

E. D. GRIZZELL, President.

UPSILON (Northwestern)

The following are the names of members of Upsilon chapter who are working on problems of research together with the titles of the investigations:

Undergraduate Investigations: C. Walter Young, "The Origin and History of the Open-Door Policy in China" and "The Shantung Controversy;" F. D. Frisbie, "The Extent and Organization of Extra-Curricular Athletic Work in Junior High Schools."

Master's Theses: W. H. Warmington, "Chaucer's Historical Allusion;" G. H. Watkins, "A Survey of the Lake Ahdes, South Dakota, Public Schools;" E. L. Clark, "The Confusion of Trade Names;" Paul L. Palmer, a University Personnel Questionnaire Study of several hundred Northwestern men entitled, "Educational and Vocational Guidance for University Men."

Dissertations Toward Doctor's Degrees: P. Henry Lotz, "The Development of Religious Education in the Major Protestant Bodies of the United States of America from 1860 to 1920;" John E. Simmers, "Vocational Guidance and Personnel Work in the Field of Religious Vocations;" Frank M. McGibben, "Week-Day Religious Instructions;" Ira A. Morton, "The Function and Use of the Educational Method in the Promotion of Religion;" Frank G. Lankard, "An Historical Study of the Curriculum of Religious Education in the United States During the National Period."

Research Being Conducted by the Faculty: Dr. Elmer E. Jones, "Scales and Standards for Measuring Drawing and Music Ability;" Dr. L. W. Webb, "A Comparative Study of Students' and Faculty Judgments' of Intelligence;" "The Re-

lative Value of Five Group Intelligence Tests;" Dr. John A. Clement, "An Investigation of High School Curriculum Practice;" "The Organization and Administration of the Junior High School."

PAUL L. PALMER,
Corresponding Secretary.

PHI (Wisconsin)

The following is a partial list of the research problems which are being undertaken by members of Phi Chapter: "Do Physiological or Psychological Factors Determine the Speed of Reading in the Upper Grades?" C. E. Hultgren; "Types of Errors in Arithmetic and the Frequency of Their Occurrence," J. F. Fronk; "Value of Diagnosis for Instruction in Handwriting," Professor P. V. West; "Investigation of Speed of Movement Rhythm and Perception," C. E. Lauterbach; "Study of Cost of Education in Cities—the District System vs. Municipal Control," P. D. Plowman; "Investigation of Pupils' Interests in Elementary School Reading Materials" and "Investigation of the Success of High School Literature Materials," Professor W. L. Uhl; "A Study of Errors in the Simple Number Combinations," Professor F. L. Clapp and B. P. Heubner; "Investigation of the Number of Times the Various Simple Arithmetic Combinations Occur in Representative Textbooks," J. R. McCrory; "Desirability of Teaching as a Profession," J. F. Rolfe; "Study of the Thorndike College Entrance Examination," F. C. Chillrud; "Advantages and Disadvantages of Co-education," H. A. Riebe and L. E. Nelson.

FRANKLIN C. CHILLRUD,
Corresponding Secretary.

PSI (Peabody)

In the early summer of 1921 the active membership of Psi Chapter, desirous, if possible, of realizing the ideals of the Fraternity, voted to inaugurate a plan of research in which the entire membership, both active and associate, could participate. During the summer the Research Committee planned a complete program of research endeavor which received the unanimous and enthusiastic support of the Chapter. With the beginning of the present scholastic year, as soon as the details of the problem of research could be worked out and determined upon definitely, the plan of work was put into operation. The research problem determined upon by the Chapter is one, we feel, of very great importance, bearing directly upon a vital educational problem of the South, that is, the function of the collegiate teacher-training institutions

of the South, and especially those institutions of state maintenance. The problem put in the form of a question is this: "What is the present status of the men who have graduated during the past decade, with a definite amount of work in education, from collegiate teacher-training institutions of the South?"

The work of collecting the data for this study was put in the hands of our forty-two associate members, who at the present time are distributed throughout the sixteen southern states. Uniform blank forms, for the purpose of collecting the data, were prepared by the active members and distributed to the associate membership. For the sake of facilitating and systematizing the work a chairman for each state was appointed by the Research Committee from the associate members of the respective states to direct the work by states.

Reports which are constantly coming in from the men in the field regarding the research work are gratifying indeed. Each state group, as far as we are able to ascertain, is not only busy with the work, but is putting vim and energy into the work that is sure to carry the project in triumph "over the top."

Not only is our Chapter busy as a group on this one problem of research, but several group and individual enterprises of research are going forward. In the recent Arkansas State Survey six of our active members participated. Four of our active members are now engaged in a survey of the public schools of Mt. Pleasant, Tennessee, under the direction of the Department of School Administration of Peabody College. At present we have eight members busily engaged in working out their doctor's dissertations and eleven members seeking their Master's degrees. Inspired with a genuine zeal for research, as our membership is, the outlook for Psi Chapter at the present time is bright indeed.

HEBERT RE BARKER, President.

CHI (Oregon)

The following is a brief description of some of the investigations being undertaken by members of Chi Chapter:

"What Is the Relation Between Intelligence and Social Status?" L. A. Enlund is making a study of this in two ward schools in different parts of the same city. His study will show the relation between the intelligence score (Otis) and the relative social status of the families represented by these pupils.

Dr. C. A. Gregory has completed a study to determine the minimum reading

vocabulary of third grade children in Oregon schools. The results show that the minimum reading requirement in the state is 5190 different words. There are 106,121 running words in the regular reading vocabulary; 289 words are used 75,591 times, while 1453 are seen but once; the 289 words constitute 71.2 per cent of the running words used in textbooks. The reading vocabularies of third grade children are much larger than is generally supposed by primary teachers.

E. L. Hoskin is making a comparison of the developments in the philosophic, social and psychological fields with the advancement in methods of teaching science. His title is "The Energy Point of View in Teaching Science." A geography test has been devised by P. L. Spencer and Dr. C. A. Gregory. The test consists of 11 exercises, but is so constructed that it may be answered in approximately fifty minutes. It is designed to measure the achievements of grades 6, 7 and 8. It may be used as a final examination in place of the present type of examination. The test is printed in three forms.

P. E. Christenson is conducting an experiment with his history classes in the Eugene high school to determine the best method of using collateral reading. Does the high school student's mental ability as shown by the Army Alpha Test influence him in his choice of an occupation? Six senior classes in Oregon high schools were given this test in 1919. The activities, educational and industrial, of each student have been tabulated and the results of this study will be incorporated in J. C. Bowman's thesis.

E. H. Hedrick is conducting a reading experiment in the 4th and 5th grades of the Central Point schools. By placing particular emphasis on the teaching of reading for one month he was able to raise the reading ability of these grades one year. He has used the Kansas Silent Reading Tests to check results.

A history of the University of Portland is being worked out by G. R. McIntyre. This is in connection with Dr. H. D. Sheldon's seminar on the Educational History of Oregon. Students in the Portland Extension Center are preparing a history of the Portland Public School System. "An Attempt to Revalue the Religious Institution from the Standpoint of Sociology" is the subject of an essay that is being written by Read Bain. It will be an attempt to justify religion without mysticism and supernaturalism.

J. CARL BOWMAN, Chairman.

OMEGA (Michigan)

A partial list of investigations carried on by members of Omega Chapter follows:

Manley M. Ellis has carried on a study of the "Similiarities and Differences in the Accrediting of Secondary Schools Throughout the Union." He is now doing research on "The Maximum Length of Assignments That May Profitably Be Given College Students" and "The Extent to Which Employee Education Is Being Carried on by Various Firms Through Company, Plant or Factory Publications" as well as working on a list of minimum laboratory experiments and equipment in the physical sciences for State Department of Public Instruction. C. K. Searles is writing his doctor's dissertation on "Reorganization of Schools of Washtenaw County According to the Community Plan." He had made a survey of the county to ascertain social, economic centers, and is now working on a plan which will serve to unite the schools of a community so that rural and urban children will have the same advantages in equipment, teaching force, supervision and administration of schools.

T. L. Purdon has "The Pshychology of the Adolescent with Special Reference to the Social Aspect" as his doctor's dissertation. Paul V. Sangren is making a study of college students who are constitutionally poor spellers, attempting to discover causes of disability and prescribe remedy. This is carried out by studying data given by subjects in answer to a questionnaire, analysis of errors in compositions, giving various tests, and teaching to improve spelling ability.

W. B. Beadle is engaged in studies of the problems which face the administrator of a public school system. This includes financial, instructional and publicity organization and a knowledge of what has been done in the general field of measurement as applied to the products of the class room.

John S. Page is formulating and selecting a series of manual dexterity tests for the purpose of selecting from prospective dental students those who possess the necessary mechanical and technical skill ultimately to become successful dentists. He is also carrying on a study of statistics concerning grounds, building, equipment and facilities for instruction in the 118 Michigan high schools of North Central rating.

CLAIR K. SEARLES, President.

ALUMNUS ALPHA (San Francisco)

The following are the subjects under research by members of Alumnus Alpha Chapter: A. J. Hamilton, principal ele-

mentary school, Berkeley, 1. "Derivation of an Accomplishment Quotient in Terms of Standard Deviations," and 2. "Testing the Validity of Some Commonly Used Reading Tests." Willard W. Beatty, teacher, San Francisco, "A Study of the Product of Our High Schools." The purpose is to examine into the practical functioning of high school education. The procedure used is the sending out of questionnaires to approximately 2,000 graduates of San Francisco high schools of 10 years standing.

G. Vernon Bennett, Associate in Education at the University of California, is making a study of the "Mental Levels of Electrical Workers." Homer H. Cornick, teacher, Alameda, "Comparison of the Actual Use of the High School Plant With the Most Effective Use, as Shown by a Study of the High School of the East Bay Cities." Virgil E. Dickson, Director of Bureau of Research and Guidance, Oakland, is making "A Study of the Use of Mental Tests and Case History Data in the Guidance of High School Pupils." James DeVoss, Director of Research and Extension at San Jose State Teacher's College, is making the following studies: 1. "Unevenness of Ability of Gifted Children;" 2. "Validity and Reliability of Certain Tests;" 3. "Prediction of Teaching Success of Students in Teachers College." F. L. Griffin, Head Division of Agricultural Education, University of California, "Job Analysis Idea as Applied to Agricultural Education." Lowry S. Howard, principal Warren School, Menlo Park, "Bringing Up Standards and Defining the Qualities That Go to Make Up the Superior Boy and the Organization of Schools for this Type of Boy."

George C. Kyte, supervising principal, university school, Berkeley, is making two investigations as follows: 1. "Reorganization and Administration of an Elementary School to Meet the Needs of Its Community" (Ed. D. thesis); 2. "Education of Gifted Children." R. Lindquist, principal elementary school, Berkeley, "Study of the Cost of Education in Nine California Cities of Population 25,000 to 100,000." Walter E. Morgan, vice principal, grammar school, Alameda, "Another Use of Van Wageningen's Table I: To Obtain Individual Spelling Ages in the Buckingham Extension of the Ayres Spelling Scale." W. G. Paden, principal, grammar school, Alameda, "A California Work Book in Geography" in conjunction with F. H. Rice. W. G. Rector, assistant supervisor, University School, Oakland, "A Basis for Educational Guidance in High School." G. M. Ruch, research assistant, Department of Education, Leland Stanford University, is making the fol-

lowing studies: 1. "Influence of Intelligence on the Learning Curve;" 2. "Test in High School Biology" (with L. H. Cossman of Chi Chapter); 3. "Test in High School General Science (with Herbert F. Popenoe of Delta Chapter); 4. "Other Educational Tests."

RUDOLPH LINDQUIST, President.

ALUMNUS BETA (St. Louis)

Nineteen Phi Delta Kappa men are employed in the public schools of St. Louis. We maintain an informal organization which meets one evening each month in the home of some member of the group, dining together and conferring on some problem of educational study. Our problem for the current year is a study of standardized silent reading tests and their adaptation to St. Louis schools. With a few of these tests, we are endeavoring to work out both grade and age norms for St. Louis pupils. In this effort we have the co-operation of our fellow member, Mr. Frank L. Wiley, director of the newly created Division of Tests and Measurements in St. Louis.

One of our members, Principal C. R. Stone, has published recently a narrative reading scale for the junior high school grades. His scale is among those which the men of the Chapter are investigating with reference to our work. It has the economic advantage of permanency and can be used repeatedly by different classes. Mr. Stone contemplates the publication of a series of similar tests for the various grades of the elementary school, believing that they can be purchased like supplementary reading matter and retained for continual use.

Thirteen of our members are school principals in St. Louis; one, Dr. J. Leslie Purdom, is head assistant in Harris Teachers College; one is Director of Tests and Measurements, as mentioned above; and the other four are high school men.

GEO. R. JOHNSON, President.

ALUMNUS GAMMA (Kansas)

The present year finds many members of the Alumnus Gamma Chapter actively engaged in making investigations which range from the thesis study of the individual to the co-operative type of group problems, whose consequences are of concern to the whole state.

The former includes studies on the administrative usefulness of intelligence tests; extra-curricular high school activities; the status of spelling among high school pupils; the relation of the rural high school organization to its efficiency; comparison of rural and other types of high schools; the employment of pub-

licity by school administrators; the use of handwriting scales by pupils, and the content of high school science courses. Four members are spending the year on research work for the Ph. D. degree—two at Columbia and two at Chicago. Two of these are devoting a year's leave of absence from the University of Kansas faculty to that purpose.

Three members of the Chapter, F. J. Kelly, of the University of Kansas; W. H. Carrothers, of Emporia Normal School, and L. W. Mayberry, Superintendent of Wichita Schools, are directing a co-operative study in which several other members are participating, for the guidance of the State School Code Commission of Kansas, which is to report on a new school code at the next session of the legislature. Twelve separate but related studies for this purpose are near completion. Phi Delta Kappa is further represented in this work by Dean R. A. Kent, Professor F. P. O'Brien, and Professor H. P. Smith, of the University of Kansas; Dean Holton, of the Kansas State Agricultural College; Supt. J. H. Clement, of Junction City, and Supt. A. K. Loomis, of Hiawatha. The shortness of time and the lack of available funds for "preparing the case" for the commission make this co-operative survey of the state's educational needs a very timely sort of service and one that promises to bear fruit.

F. P. O'BRIEN, Secretary.

ALUMNUS DELTA (Fresno)

The men of the Chapter are all active men in the field, and when engaged in research are generally delving into the problem of their immediate job. Brothers Sumner and Hubbard, who have recently taken over supervising principalships in nearby towns, have been deep in the practical problems of elementary school reorganization. Brother McKillop, principal of the high school at the town of Selma, has for eight months been researching in the fields of bond campaigning and school architecture. Brother Linn, as county supervisor of high schools, has specialized in the interpretation and application of recent California high school law—no mean job of research in itself. Brother Valentine, who has charge of the measurements work at the Fresno State Teachers College, is directing a survey of the schools at Madera, where Brother Hubbard is superintendent. Wheaton H. Brewer, as employment manager for the Rosenberg Packing Co., frequently discourses to us upon his discoveries in employment psychology, part-time education and sociology. And there is our new acquisition, William

John Cooper, recently elected superintendent of schools for Fresno. William John says that he is so busy researching that he has not had time to read a book since his election. The object of his research is the thorough reorganization of the Fresno school system, a job which Brother Cooper is effectively putting through.

We have fourteen active and regularly attending members of Alumnus Delta. We meet monthly around the board table at the county office, following a cafeteria feed. At each meeting we hear reports upon current educational literature and then go thoroughly into the problems of some one of us who is scheduled for the evening.

The regular annual election of officers resulted in the election of L. P. Linn as President and Walter C. Schlein as Secretary-Treasurer.

Fresno Alumnus Delta sends greetings to all chapters.

P. F. VALENTINE,
Retiring President.

ALUMNUS EPSILON (Los Angeles)

The California Bureau of Juvenile Research has just published the "Whittier Social Case History Manual," which includes a description of the method of social case work, together with some illustrative sample histories. Brother J. Harold Williams is one of the co-authors.

John D. Cooke (Stanford) Department of English, University of Southern California, is completing his doctor's dissertation (Stanford) on the subject, "The Medieval Interpretation of an Attitude Toward Classical Pagan Religion and Mythology."

Marvin L. Darsie (Stanford), chairman of the Department of Education of the University of California, Southern Branch, will spend the spring and summer at Stanford University. He is making a study of the measurement of racial differences and is completing the requirements for his Ph. D.

W. H. Hughes (California), superintendent of schools, Claremont, is the author of three recent articles: "Meaningful High School Records," School Board Journal, January, 1922; "Practical Needs for Social-Individual Psychology in High School Education," Educational Administration and Supervision, December, 1921; "Provisions for Individual Differences in High School Organization and Administration," Journal of Educational Research, January, 1922.

Dr. Lester B. Rogers (Columbia), dean of the School of Education, University of Southern California, has just completed

a chapter on "The Relation of the College of Letters and Sciences to the Professional Schools" for a book on "College and University Administration." The book is being edited by Professor R. L. Powers and is to contain chapters written by forty eminent university professors and presidents.

Dr. William A. Smith (Chicago), Department of Education, University of California, Southern Branch, is the author of a new book to be published by Macmillan and Company under the title "The Reading Process."

Dr. J. W. Todd (Columbia), Head of the Department of Psychology, University of Southern California, has perfected a new psychological instrument, called an *ergograph*, for the study of fatigue, endurance and muscular efficiency.

The following Phi Delta Kappa men are named in the membership of the Board of Trustees of the recently organized Southern California Vocational Guidance Society: Wm. F. Ewing (Stanford), principal of the Pasadena High School; Charles L. Jacobs (Stanford), State Teachers College, Santa Barbara; L. A. Maverick (Harvard), Recorder, University of California, Southern Branch; Wm. E. Nicholl (Harvard), dean, Pomona College; J. Harold Williams (Stanford), Director of Juvenile Research, Whittier State School.

JOHN D. COOKE, Secretary.

ALUMNUS ZETA (Detroit)

The following is a brief account of the investigations that are being carried on by members of Alumnus Zeta Chapter: A. H. Edgerton of the Vocational Bureau has recently completed an investigation pertaining to the purpose, content and method of Industrial Arts and Prevocational Education in 379 intermediate and junior high schools in 21 different states. The findings of the investigation are appearing in current numbers of the "Industrial Arts Magazine." A second survey has recently been completed in an effort to ascertain the present status of industrial arts education in the elementary school of 141 school systems in 19 states. A description of this survey will soon appear in the "Manual Training Magazine." Brother Edgerton is also making a series of investigations of the important local occupational pursuits in order to secure reliable data for the use of vocational counselors, teachers and pupils in intermediate and high schools.

Harry J. Baker, clinical psychologist, is engaged in developing and applying tests for special mental aptitudes, seeking to evaluate non-intellectual factors.

In collaboration with H. J. Kaufmann, he has completed an intelligence for kindergarten pupils.

C. L. Thiele, supervisor of exact sciences, is developing a course of study in general science for intermediate schools. He is also engaged in developing further practice tests to be used in connection with the Curtis Standard Arithmetic Tests.

Warren K. Layton, in charge of Group Intelligence Testing, is supervising the administration of intelligence tests to all over-age and backward pupils in the elementary schools, to 500 non-English speaking pupils, to all pupils in two intermediate schools, to 400 high school pupils, to all new teachers in the city and to all pupils enrolled in Detroit Teachers College. In addition to this routine work, an experiment is being carried on to discover the influence of age upon performance in the Detroit first grade intelligence test. Studies are also carried on to find the correlation between performance in Detroit kindergarten test and the Detroit first grade intelligence test. Correlations are also being developed showing the relation between performance in Detroit first grade intelligence test and the age, nationality, attendance and success in school of those taking the test.

Arthur B. Moehlman, Director of Statistics and Reference, has recently completed an organization study of the school systems of six large American cities. He is making a thorough study of the height, weight and other physical characteristics of school children in an effort to determine standards of growth. A complete age, grade and nationality study of the school children of Detroit has been completed and published as a research number of the Detroit Educational Bulletin.

S. A. Courtis, Director of Teacher Training Instruction and Educational Research, and A. S. Barr, Assistant Director of Instructions, are carrying on investigations and experiments in the general

field of instruction. These studies may be summarized as follows: Instruction in Reading 14, Instruction in English 3, Instruction in Spelling 1, Instruction in Writing 2, Instruction in Visual Education 2, Instruction in Vocational Education 8, Instruction in Music 4, Instruction in Health Education 2. Some of these investigations may be of particular interest, as for example, the experiment planned to establish hospital classes in high schools in which to do remedial work in reading with such pupils as are found to be low in reading ability. A second experiment plans to determine the advisability of dividing reading classes in the elementary grades into groups according to levels of ability. New tests in word recognition and a series of tests based on the general plan of the Ayres-Burgess Reading Test are being developed. An effort is being made to determine to what extent the material, curriculum and methods of the kindergarten may be transferred to the first grade.

An investigation is also being carried on to determine the best method of teaching reading to the slow groups of foreign pupils. An important study is being undertaken having for its purpose the construction of a standard test for appreciation of music. Mr. Barr is also engaged in a thorough study of the standards which should apply in the selection, distribution and use of text books.

Under the direction of L. J. Brueckner, Assistant Dean, Detroit Teachers College, extensive studies are being made in an effort to determine the relationship between the high school scholarship, intelligence score and the normal school progress of students enrolled in Detroit Teachers College.

E. K. Blackstone has just completed the construction and standardization of a typewriting test for high school pupils.

ROBERT M. MAGEE,
Corresponding Secretary.

The Spirit of Phi Delta Kappa

The spirit of Phi Delta Kappa is most aptly expressed in the following excerpts from a letter to the National Secretary from Brother S. S. Mayo, Corresponding Secretary of the Alpha-Gamma Chapter at State College of Washington, the infant chapter.

"My anticipations concerning Phi Delta Kappa had been great indeed, but after our installation and initiation last Saturday I can truly say that what I now realize far surpasses any of my expectations. I am sure that I am expressing the feeling of the entire membership of Alpha-

Gamma Chapter when I say this. As a means of vitalizing school work and encouraging red-blooded men to enter the profession of teaching, I am positive that Phi Delta Kappa is a great and important factor. Through the fellowship it encourages, many educational problems can be more readily and scientifically solved."

This is a page that all new initiates of Phi Delta Kappa can conveniently take from Alpha-Gamma Chapter. It is only by the manifestation of such an attitude, such a spirit, such a will that Phi Delta Kappa can "CARRY ON."

A. J. M.